

## Tropical Cyclone (TC) 16S (Gerry)\*



First Poor : N/A

First Fair : 1800Z 07 Feb 03

First TCFA : 0630Z 08 Feb 03

First Warning : 1800Z 08 Feb 03

Last Warning : 1200Z 15 Feb 03, Dissipation

Max Intensity : 105 kts, gusts to 130 kts

Landfall : None

Total Warnings : 15

Remarks:

(1) Tropical Cyclone (TC) 16S developed approximately 430 Nm north-northwest of Mauritius within a well established monsoon trough consisting of 3 separate circulations that spanned across the South Indian Ocean. The other 2 circulations eventually became TCs 17S and 18S. Initially, TC 16S was caught in the weak equatorial steering flow of a low to mid level ridge to the southwest. TC 16S remained a weak system at the surface during this time, but maintained a well developed mid-level circulation. As the cyclone intensified, it made a quick turn south and curved towards the southeast as the steering ridge moved to the east of the system. TC 16S eventually went extratropical and JTWC issued the final warning on 15 February.

TC 16S reached a maximum intensity of 105 knots on 13 February when the upper level conditions improved and enhanced outflow into a mid-latitude trough. TC 16S passed within approximately 60 Nm northeast of Mauritius at its maximum intensity and weakened thereafter as it encountered increasing vertical wind shear.

TCs 16S, 17S, and 18S are an interesting case on how multiple TCs in one tropical basin behave and interact with each other in the open water. All systems developed at approximately the same latitude, yet displayed few signs of direct interaction through their life cycle.

(2) Reports indicated minimal damage on Mauritius with this system.

\*Named by WMO designated RSMC

# Statistics for JTWC on TC16S

	WRN	BEST TRACK			POSITION ERRORS								WIND ERRORS							
DTG	NO.	LAT	LONG	wind	00	12	24	36	48	72	96	120	00	12	24	36	48	72	96	120
03020718		14.9S	55.9E	25																
03020800		14.5S	56.1E	25																
03020806		14.1S	56.2E	25																
03020812		13.7S	56.3E	30																
03020818	1	13.5S	56.1E	30	60	103	158	223	253				0	0	10	5	0			
03020906	2	13.0S	55.5E	35	0	32	105	116	127				0	10	10	10	15			
03020918	3	12.1S	54.9E	35	8	53	101	123	147				0	0	-5	0	15			
03021006	4	11.4S	54.4E	45	13	60	118	168	189				0	-5	0	15	30			
03021018	5	12.1S	53.9E	55	50	113	193	200	171				0	5	20	25	15			
03021106	6	13.3S	53.7E	60	0	44	38	19	57				0	15	20	0	-25			
03021118	7	15.5S	53.8E	60	21	34	49	91	123				-5	-5	-20	-40	-40			
03021206	8	16.7S	54.6E	65	8	29	85	125	146				-10	-30	-50	-45	-40			
03021218	9	18.0S	56.1E	85	23	80	127	150	156				-10	-30	-30	-25	5			
03021306	10	19.4S	58.5E	105	0	49	87	103	124				0	15	20	50	55			
03021318	11	21.5S	60.9E	100	5	27	60	89					0	0	30	45				
03021400	12	22.6S	61.8E	100	0	27	64	106					0	10	45	45				
03021412	13	24.7S	63.4E	75	12	20	48						0	25	15					
03021500	14	26.4S	65.1E	35	34	6							0	5						
03021512	15	27.9S	67.0E	30	12								5							
			AVERAGE		17	48	95	126	149				2	11	21	25	24			
			BIAS										-1	1	5	7	3			
			# CASES		15	14	13	12	10				15	14	13	12	10			

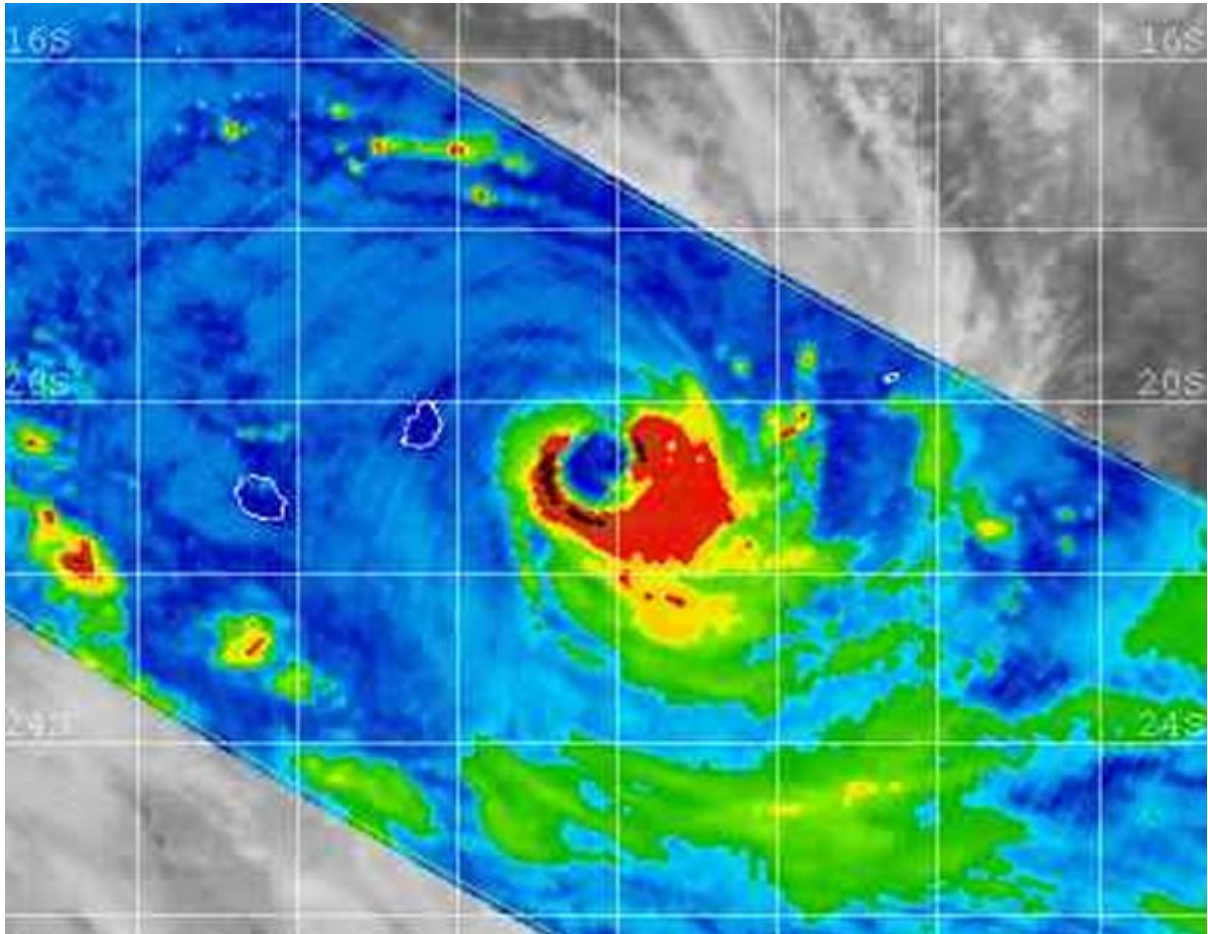
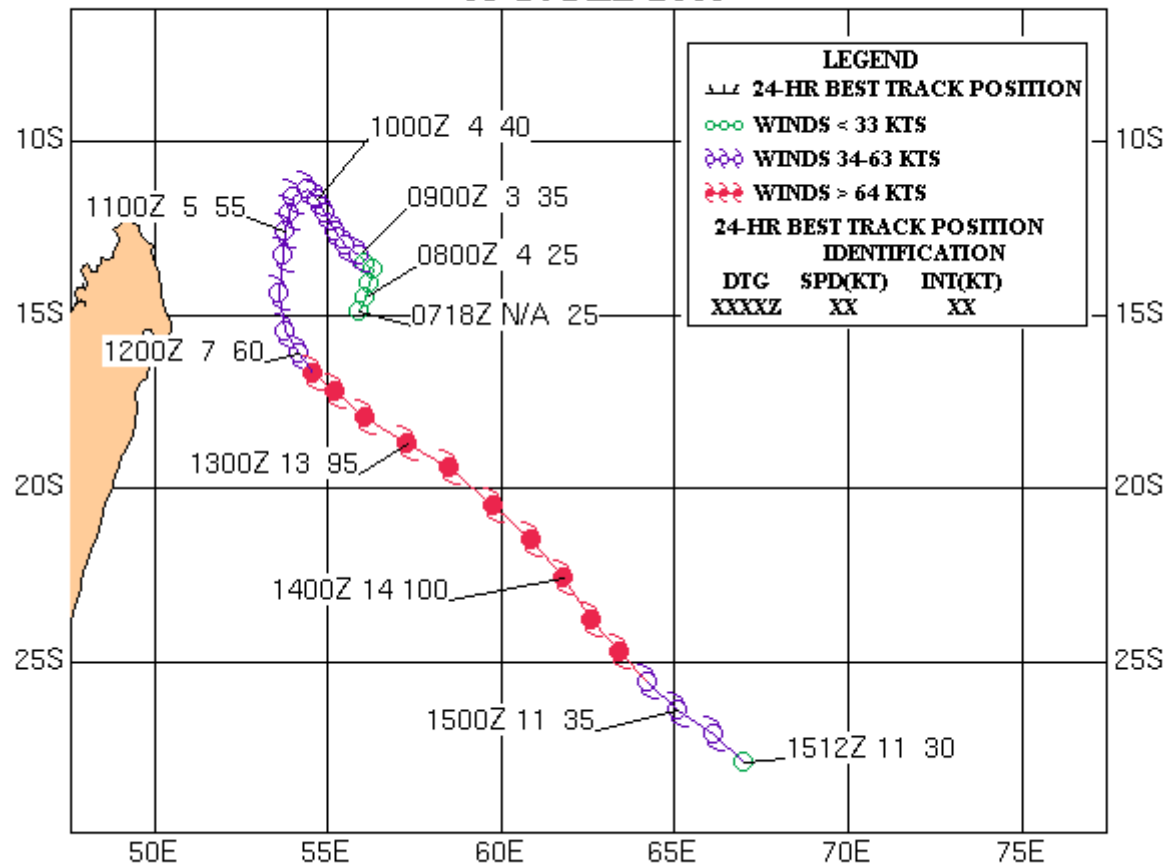


Figure 2-16S-1. 131228Z February 2003 85 GHz TRMM image of TC 16S (Gerry), 243 nm east of La Reunion island, with a peak intensity of 105 knots. The northern portion of the eye wall has just begun to weaken.

# TROPICAL CYCLONE 16S (GERRY)

08-14 FEB 2003



## Time Intensity for 16S

Intensity (kts)

